

For receiving Office use	only ————
International Application No.	
te	
International Filing Date	
Name of receiving Office and "PCT Internati	ional Application"

REQUEST	International Filing Dat	tu				
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"					
	Applicant's or agent's f	ile reference rs maximum) 004991-0007				
Box No. I TITLE OF INVENTION METHOD AN	D SENSOR FOR	DETECTING A				
CHEMICAL SUBSTANCE USING AN OP	TICALLY ANIS	SOTROPIC MATERIAL				
· Land '	n is also inventor					
Name and address: (Family name followed by given name; for a legal em. The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this	Telephone No. (418) 688-8065				
FISO TECHNOLOGIES INC.		Facsimile No. (418) 688-8067				
500, avenue Saint-Jean-Baptiste	·	Teleprinter No.				
Bureau 195		reiepriner No.				
Québec (Québec) CANADA G1N 4N6		Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country) CA	of residence:				
This person is applicant for the purposes of: all designated States all designated the United	ed States except States of America	the United States the States indicated in of America only the Supplemental Box				
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	THER) INVENTOR(S)					
Name and address: (Family name followed by given name; for a legal er The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of reside	the address indicated in this	This person is:				
PINET, Éric		applicant and inventor				
1535, chemin Jean-Gauvin		inventor only (If this check-box				
Val-Bélair (Québec) CANADA G3K 1X2		is marked, do not fill in below.)				
CANADA GOR IAZ		Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country)	of residence:				
	states of America	the United States of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated	l on a continuation sheet.					
Box No. IV AGENT OR COMMON REPRESENTATIV	E; OR ADDRESS FO	R CORRESPONDENCE				
The person identified below is hereby/has been appointed to ac of the applicant(s) before the competent International Authoriti		agent common representative				
Name and address: (Fifnily name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) The address must include postal code and name of country.) Telephone No. (514) 987-6242						
ROBIC		Facsimile No.				
55, rue St-Jacques	(514) 845-7874					
Montréal (Québec) CANADA H2Y 3X2		Teleprinter No.				
ONWHOM HET OME		Agent's registration No. with the Office				
	•	Agent Stegistiation No. with the Office				
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.						

Sheet	Nο	2

If none of the following sub-boxes is used, this sheet should not be included in the re	Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)							
Name and address: (Family name followed by given name: for a legal entiry full official designation	This person is:							
The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	applicant only							
DUPLAIN, Gaétan	X applicant and inventor							
196, avenue de la Falaise Beauport (Québec)	inventor only (If this check-box is marked, do not fill in below.)							
CANADA G1E 3H6	Applicant's registration No. with the Office							
	Approxim stegistration (40, with the Office							
State (that is, country) of nationality: CA State (that is, country) CA) of residence:							
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box							
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box							
	is marked, do not fill in below.)							
	Applicant's registration No. with the Office							
State (that is, country) of nationality: State (that is, country)	of residence:							
This person is applicant all designated all designated States except for the purposes of:	the United States of America only the States indicated in the Supplemental Box							
Name and address: (Family name followed by given name; for a legal entity, full official designation. The uddress must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office							
State (that is, country) of nationality: State (that is, country)	of residence:							
This person is applicant all designated all designated States except								
for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box							
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor							
	inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office							
	is marked, do not fill in below.) Applicant's registration No. with the Office							
State (that is, country) of nationality: State (that is, country)	is marked, do not fill in below.) Applicant's registration No. with the Office							
State (that is, country) of nationality: State (that is, country) This person is applicant for the purposes of: all designated states except the United States of America	is marked, do not fill in below.) Applicant's registration No. with the Office							

ർഠ	x No.	V DESIGNATION OF STATES		M	ark the applicable check-boxes below,	at l	east	one must be marked.
The	The following designations are hereby made under Rule 4.9(a):							
		al Patent						
	_		. ~					9
	AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)							
X	EA							
-		RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT						
EX J	EP	European Patent: AT Austria, BE E Republic, DE Germany, DK Denma HU Hungary, IE Ireland, IT Italy, LU SI Slovenia, SK Slovakia, TR Turke and of the PCT	rk, J Lu y, a	EE ixer ind a	Estonia, ES Spain, FI Finland, FR nbourg, MC Monaco, NL Netherland iny other State which is a Contracting	Fran ds, F g St	ce, TP ate	GB United Kingdom, GR Greece, ortugal, RO Romania, SE Sweden, of the European Patent Convention
(20)		OAPI Patent: BF Burkina Faso, B. GA Gabon, GN Guinea, GQ Equate TD Chad, TG Togo, and any other St of protection or treatment desired, sp	tate pec	wh ify o	inea, GW Guinea-Bissau, ML Malich is a member State of OAPI and a model tine)	i, M Cor	R M	lauritania, NE Niger, SN Senegal,
Na	tion	al Patent (if other kind of protection of	or ti	eati	nent desired, specify on dotted line):			
K	AE	United Arab Emirates		IR	Croatia	K)	ОМ	Oman
X	AG.	Antigua and Barbuda	8 0 1	UE	Hungary	X	PG	Papua New Guinea
X	AL.	Albania	(0)	D	Indonesia	X	РΗ	Philippines
	AM	Armenia		L	Israel	∇	PY.	Poland
(XI)	AT	Austria	K)]	N	India	X	РΤ	Portugal
(X)	ΑU	Australia	X)]	S	Iceland		RO	Romania
K	ΑZ	Azerbaijan	X) .	IP	Japan	X	RU	Russian Federation
X	BA	Bosnia and Herzegovina	X) 1	ΚE	Kenya			*************************
K	BB	Barbados Bulgaria	K) 1	KG	Kyrgyzstan	X	SC	Seychelles
K	BG	Bulgaria		ΚP	Democratic People's Republic	X	SD	Sudan
X	BR	Brazil			of Korea		SE	Sweden
K	BY	Belarus	X	KR	Republic of Korea	X	SG	Singapore
K	BZ	Belize	X	ΚZ	Kazakhstan			
					Saint Lucia	X	SL	Sierra Leone
		& LI Switzerland and Liechtenstein				X	SY	Syrian Arab Republic
X	CN	China	X	LR	Liberia	X	TJ	Tajikistan
	co	Colombia	ונא	LS	Lesotho			
		Costa Rica				-		Tunisia
		Cuba				X	TR	Turkey
		Czech Republic				K	TT	Trinidad and Tobago
(X)	DE	Germany	K) !	MA	Morocco	_		
(X)	DK	Denmark	K) I	MD	Republic of Moldova	K	TZ	United Republic of Tanzania
		Dominica			• • • • • • • • • • • • • • • • • • • •	K	ŪA	Ukraine
	DZ	Algeria	X)	MG	Madagascar		UG	Uganda
(X)	EC	Ecuador	X)	MK	The former Yugoslav Republic of	X	US	United States of America
		Estonia			Macedonia			
(XX)	ES	Spain	ZI I	MN	Mongolia	K	UZ	Uzbekistan
	FI	Finland		MW	Malawi	K	VC	Saint Vincent and the Grenadines
		United Kingdom		MX	Mexico	K	VN	Viet Nam
		Grenada	6J .	MZ	Mozambique			
		Georgia						South Africa
		Ghana						Zambia
15	GM	Gambia	الم	ΝZ	New Zealand	X	ZW	Zimbabwe
C	Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:							
K	EG Egypt. BW.Botswana.							
	000	ionary Designation Statement: In a		41.	An Alma danian attanta			
rr	ccaul	nonar à mesignation Statement: In a	uai	cion	to the designations made above, the	app	IICA	nt also makes under Rule 4.9(b) all

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet	Nο		4	1	

Box No. VI PRIORITY	CLAIM						
The priority of the following	earlier application(s) is here	by claimed:					
Filing date	Number	Where earlier application is:					
of earlier application (day/month/year) of earlier application		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 20 December 2002 (20/12/02)	60/434,780	us					
item (2)	•						
item (3)							
item (4)							
item (5)							
Further priority claims	are indicated in the Supplem	ental Box.		L			
The receiving Office is requifithe earlier application was above as:	ested to prepare and transmit filed with the Office which for	to the International Burea the purposes of this interna	u a certified copy of the	earlier application(s) (only receiving Office) identified			
all items item	(1) item (2)	item (3) item	(4) item (5)	other, see Supplemental Box			
* Where the earlier applicati Industrial Property or one M	ion is an ARIPO application, t Iember of the World Trade O	indicate at least one country Prganization for which that	y party to the Paris Conve earlier application was fi	ention for the Protection of iled (Rule 4.10(b)(ii)):			
Box No. VII INTERNAT	 ΓΙΟΝΑL SEARCHING AU	THORITY					
Choice of International Se	arching Authority (ISA) (if e the Authority chosen; the tw	two or more International S	Searching Authorities are	competent to carry out the			
ISA / EPO	e the Authority chosen; the tw	vo-letter code may be used):					
Request to use results of e International Searching Auti	arlier search; reference to	that search (if an earlier s	earch has been carried o	ut by or requested from the			
Date (day/month/year)	Num	nber Cour	ntry (or regional Office)				
Box No. VIII DECLARA	TIONS						
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of declarations Number of declarations							
Box No. VIII (i)	Declaration as to the ident	tity of the inventor		:			
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:							
Box No. VIII (iii)	Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application						
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):							
Box No. VIII (v)	Declaration as to non-pre	ejudicial disclosures or exc	eptions to lack of novelt	y :			

heet	No	5

Box No. IX CHECK LIST; LANGUAGE	OF FILING					
This international application contains:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in					
(a) in paper form, the following number of sheets:	right column the number of each item).	of items				
request (including	1. K fee calculation sheet	: 1				
declaration sheets) : 5	2. X original separate power of attorney	: 3				
description (excluding sequence listings and/or	3. original general power of attorney					
tables related thereto) : 49	4. Copy of general power of attorney, reference number	•				
claims : 29	if any:	:				
abstract : 1	5. statement explaining lack of signature	:				
drawings 18	6. Priority document(s) identified in Box No. VI as item(s): (1)	: 1				
Sub-total number of sheets: 102 sequence listings:	7. translation of international application into (language):					
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganior other biological material	sm				
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	•				
computer readable form; see (c) below)	(i) Copy submitted for the purposes of international seas	rch under				
Total number of sheets : 102	Rule 13ter only (and not as part of the international a (ii) (only where check-box (b)(i) or (c)(i) is marked in left of					
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copurposes of international search under Rule 13ter	:				
(i) ☐ sequence listings (ii) ☐ tables related thereto	(iii) together with relevant statement as to the identity of copies with the sequence listings mentioned in left c	olumn ;				
(c) also in computer readable form (Section 80 i(a)(ii))	10. tables in computer readable form related to sequence lis (indicate type and number of carriers)	_				
(i) ☐ sequence listings (ii) ☐ tables related thereto	(i) copy submitted for the purposes of international seal Section 802(b-quater) only (and not as part of the in application)	rch under ternational				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left	nny for the				
contained the	purposes of international search under Section 802(I	b-quater) :				
sequence listings:	(iii) together with relevant statement as to the identity of copies with the tables mentioned in left column	the copy or				
(additional copies to be indicated under	11. other (specify):	:				
items 9(ii) and/or 10(ii), in right column)						
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: English					
Box No. X SIGNATURE OF APPLICAN	T. AGENT OR COMMON REPRESENTATIVE					
Next to each signature, indicate the name of the person sig	ning and the capacity in which the person signs (if such capacity is not obvious f	rom reading the request).				
One Mois (Ro	h.)					
C No.	91C)					
Les MODIN Debenda De Dio	- ノ					
Luc MORIN, Patent Agent for ROBIC						
	For receiving Office use only					
Date of actual receipt of the purported	Pol receiving Office use only					
international application:		2. Drawings:				
		received:				
	3. Corrected date of actual receipt due to later but timely received papers or drawings completing					
Date of timely receipt of the required corrections under PCT Article 11(2):	4. Date of timely receipt of the required corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid						
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Date of receipt of the record copy by the International Bureau:						